

June 10, 2020

Mr. James Loftus
4373 Jason Street
Denver, CO 80211

Re: 3753 Franklin Street, Denver

Dear Mr. Loftus:

The referenced property is located within the boundaries of the Vasquez Boulevard/I-70 Superfund Site, a large portion of north Denver where soils were contaminated with lead and arsenic from historical smelter operations. However, when most residential properties in the VB/I-70 site were being evaluated, the subject property was not sampled. Therefore, Corn & Associates collected two composite soil samples to determine whether arsenic or lead levels are elevated in soil at the subject property.

Soil Sampling and Analysis

On June 1, 2020 Corn & Associates collected soil samples from two areas at the subject property: the front of the yard, and the back of the yard, as shown in Figure 1. Each of the two areas were divided into a grid, with 10 roughly equal sections in each area. In each of the two areas, an equal quantity of soil from each of the 10 grid sections was combined in a mixing bowl, and then one composite sample was taken from the bowl for laboratory analysis. All samples were collected from a depth of 0 to 2 inches.

Soil samples were taken to Origins Laboratory and analyzed for arsenic and lead. The results are presented in Table 1, and laboratory data sheets are included in Appendix B.

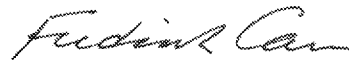
The Action Levels for arsenic and lead in Operable Unit 1 (OU1) of the VB/I-70 Superfund Site, in which the subject property is located, are also presented in Table 1. The Action Levels for arsenic and lead, 70 and 400 milligrams per kilogram (mg/kg) respectively, were not exceeded in either of the two soil samples.

Conclusions

The yard at 3753 Franklin Street was divided into two areas, and composite soil samples were collected from both the front and rear sections. Action Levels for arsenic and lead were not exceeded in either sample; therefore, no remedial action should be required for this property.

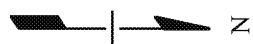
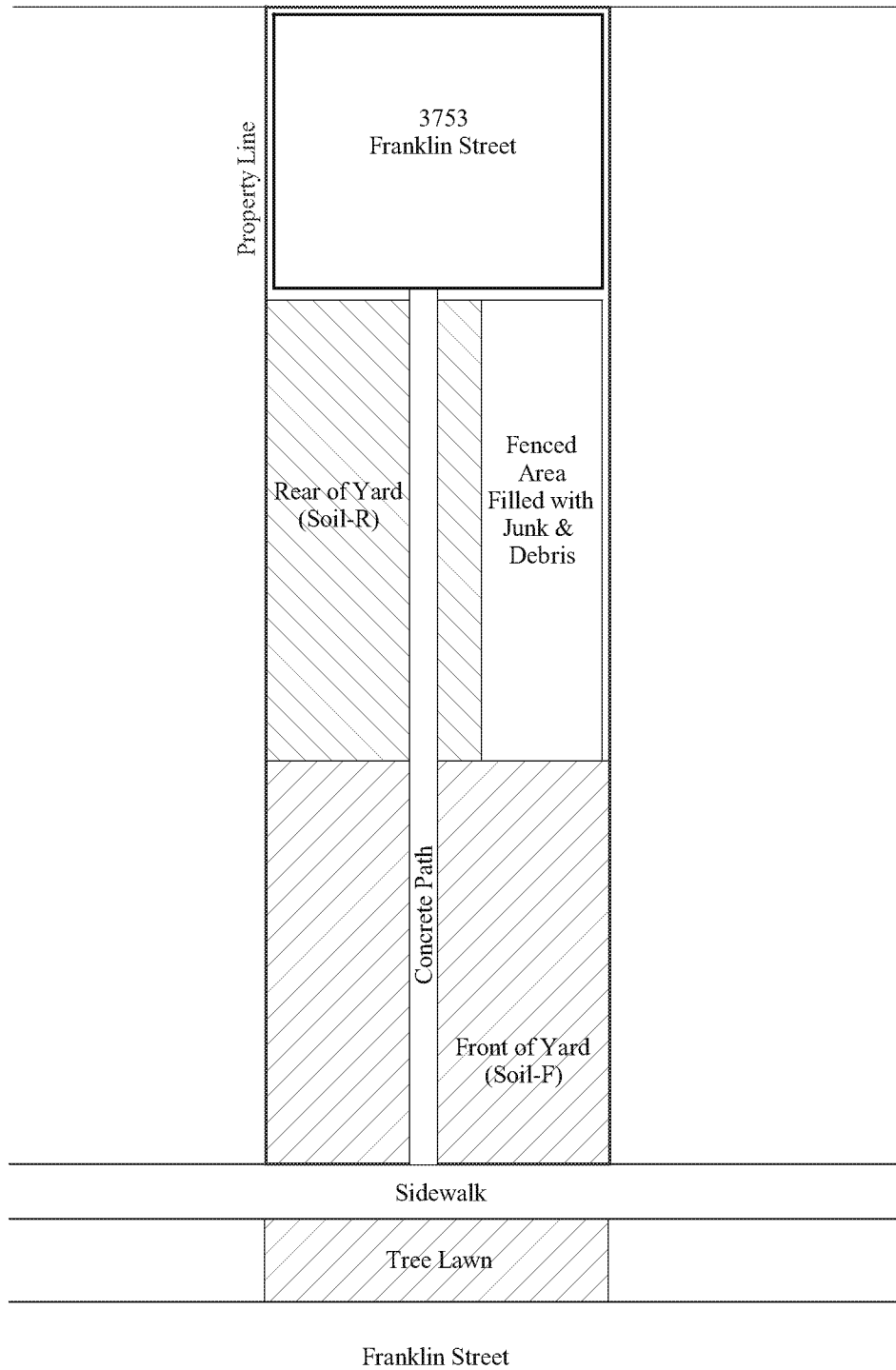
Please call me at (303) 433-8577 if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Frederick Corn".

Frederick Corn, PE
President

Alley



0 20
APPROXIMATE SCALE IN FEET

James Loftus	Date 6/10/20
	File LOF-001
3753 Franklin Street Sampling Locations	Figure No. 1
<i>Corn & Associates</i>	

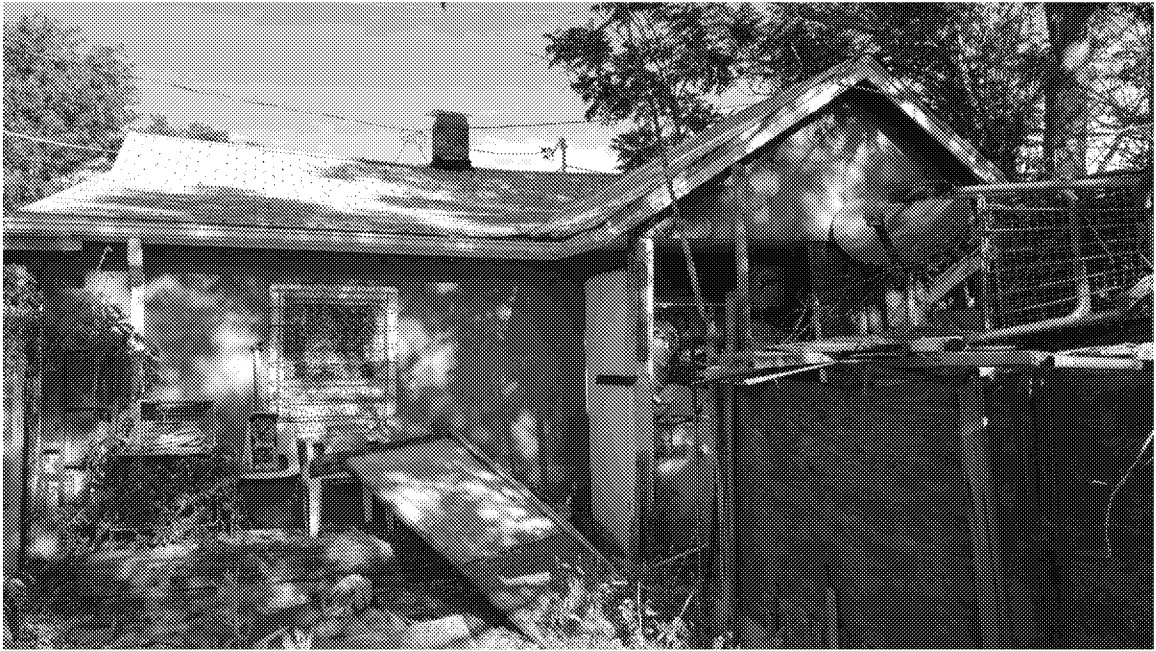
Table 1
Soil Sampling Analytical Results
June 1, 2020
3753 Franklin Street, Denver, CO

	VB/I-70 OU-1 Action Level (mg/kg)	Soil-F (mg/kg)	Soil-R (mg/kg)
Arsenic	70	10.2	8.82
Lead	400	180	207

mg/kg = milligram per kilogram

APPENDIX A

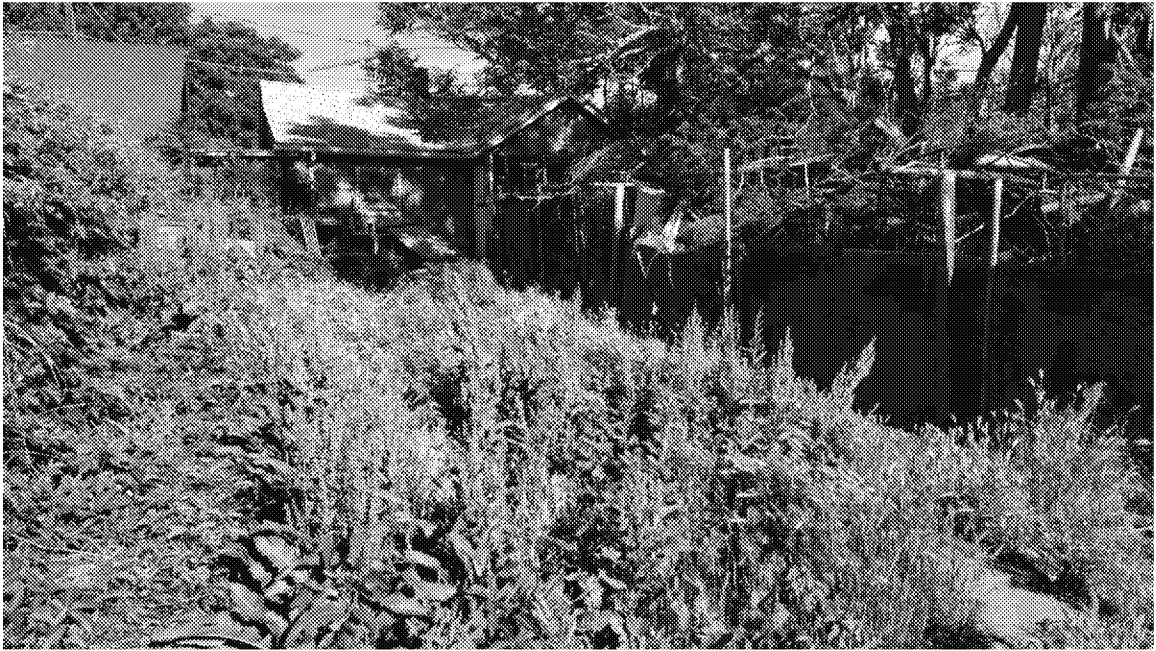
PHOTOGRAPHS



The front of the house at 3753 Franklin Street.



The front of the yard.



The rear portion of the yard.



A fenced area that is filled with junk and debris.



Each area of the yard was divided into 10 approximately equal areas.



Composite samples were mixed in a stainless steel bowl.

APPENDIX B

ANALYTICAL LABORATORY DATA



June 08, 2020

Corn & Associates

Fred Corn

3625 Raleigh Street

Denver

CO 80212

Project Name - Franklin

Project Number - LOF-001

Attached are your analytical results for Franklin received by Origins Laboratory, Inc. June 01, 2020. This project is associated with Origins project number Y006002-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Soil - F	Y006002-01	Soil	June 1, 2020 8:30	06/01/2020 09:24
Soil - R	Y006002-02	Soil	June 1, 2020 9:00	06/01/2020 09:24

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

ORIGINS
LABORATORY, INC

www.originslaboratory.com

7006002

page 1 of 1

Client: LORN & ASSOCIATES
Address: 3625 RALEIGH ST.
DENVER, CO 80212
Telephone Number: 303-433-8577
Email Address: fred@corn.com

Project Manager: Fred Corn
Project Name: FRANKLIN
Project Number: LOF-001
Samples Collected By: Fred Corn

Fax: 303.265.9645

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Shipped		
SOIL-F	6/1/20	8:30	1	✓					✓		AS SHIPPED	
SOIL-R	6/1/20	9:00	1	✓					✓		AS SHIPPED	
Relinquished By: <u>Fred Corn</u>	Date: <u>6/1/20</u>	Time: <u>9:24</u>	Received By: <u>[Signature]</u>	Date: <u>6/1/20</u>	Time: <u>9:24</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							

Temp Received: 17.8 Date Results Needed

Origins Laboratory, Inc.

Jordan A. Merrill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y006002

Client: Corn & Associates

Client Project ID: Franklin

Checklist Completed by: JG

Shipped Via: HD

Date/time completed: 6/1/20

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 17.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Save Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jm
Reviewed by (Project Manager)

6-2-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jm

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

Soil - F

6/1/2020 8:30:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

GEL Laboratories, LLC
Y006002-01 (Soil)

Total Metals by 6010C

Arsenic	10.2	3.43	mg/kg dry	1	2007081	LS	06/02/2020	06/03/2020
Lead	180	2.29	"	"	"	LS	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

Soil - R

6/1/2020 9:00:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

GEL Laboratories, LLC

Y006002-02 (Soil)

Total Metals by 6010C

Arsenic	8.82	3.19	mg/kg dry	1	2007081	LS	06/02/2020	06/03/2020
Lead	207	2.13	"	"	"	LS	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

Total Metals by 6010C - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007081 - SW846 3050B										
BLANK (1204571056-BLK)					Prepared: 06/02/2020 Analyzed: 06/03/2020					
Lead	ND	1.85	mg/kg				-			U
Arsenic	ND	2.77	"				-			U
LCS (1204571057-BKS)					Prepared: 06/02/2020 Analyzed: 06/03/2020					
Lead	45.8	1.93	mg/kg	48.2		95	80-120			
Arsenic	44.3	2.89	"	48.2		92	80-120			
DUP (1204571058 D)					Source: Y006002-01		Prepared: 06/02/2020 Analyzed: 06/03/2020			
Lead	178	2.26	mg/kg dry		180		0-20	0.709	20	
Arsenic	9.56	3.39	"		10.2		0-20	6.86	20	
MS (1204571059 S)					Source: Y006002-01		Prepared: 06/02/2020 Analyzed: 06/03/2020			
Lead	229	2.20	mg/kg dry	55.0	180	90.3	75-125			
Arsenic	59.4	3.30	"	55.0	10.2	89.3	75-125			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

Corn & Associates
3625 Raleigh Street
Denver CO 80212

Fred Corn
Project Number: LOF-001
Project: Franklin

Notes and Definitions

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President